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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/542,110	07/13/2005	Yoshimasa Ando	275190US0PCT	1078	
23850 OBLON, SPIVAK, MCCLEILLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAM	EXAMINER	
			MANOHARAN, VIRGINIA		
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER		
			1797		
			NOTIFICATION DATE	DELIVERY MODE	
			08/21/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) 10/542,110 ANDO ET AL. Office Action Summary Examiner Art Unit Virginia Manoharan 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 22 March 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-11 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 13 July 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date 09/20/05; 10/11/05; 12/14/05.

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

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DETAILED ACTION

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors, e.g., typographical, grammar, idiomatic, syntax and etc. Applicants' cooperations are requested in correcting any errors of which applicants may become aware in the specification.

The abstract of the disclosure is objected to because of the inclusion of legal phraseology often used in patent claims such as "comprising" in line 6. Correction is required. See MPEP § 608.01(b).

The drawings are objected to because of the following reasons:

- Figures 7 and 8 should be designated by a legend such as --Prior Art-because only that which is old is illustrated. See MPEP § 608.02(g). [Note page 7 of the specification].
- 2). The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "33" at page 16; and "14" at page 8 have both been used to designate "folded-back portion". [Applicants should further check that different numbers do not refer to the same part; and vice versa, i.e., different parts are not being referred to by the same number].

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate

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prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- a). It is unclear what specifically constitute the angle within the context of the claimed invention as it is not specified in the claims, at least not in the dependent claims.
- b). In claim 11, two distinct unit of operation are being claimed, i.e., distillation and absorption, which have two different modes of operations and effects.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 5-6, 7 and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants Disclosure of Admitted Prior in view of Japan 49-4136 or Nutter et al (2002/0190403).

Applicants admit at page 3, first full paragraph that "as shown in Table 6-1 on page 331 of the Mechanical Design Handbook, 3rd edition, Mechanical Design Handbook Editorial Committee ed. (Maruzen Publishing), the shape of industrial support beams is such that the folded-back portion of a support beam having a U-shaped cross-portion is normally connected perpendicular to the connecting portion, namely horizontally". Claim 1 requires the folded-back portion to be inclined. However, to modify the structure admitted to be known by applicants such that the folded back portion is inclined would have been obvious to one of ordinary skill in the art as is such is conventionally done in the art in order to obtain the predictable result of avoiding adherence to the surface of the folded-back portion polymerizable compounds [obviously with the folded -back portion being inclined (improved) as opposed to being flat, i.e., being horizontal as known in the art treated with a treatment apparatus equipped with a support beam. Note e.g., Fig. 3 with (6) slightly inclined in the JP '136 reference; and further at the abstract and at page 3, para [0019] and para [0057] in the Nutter's reference which shows e.g., the inclined tiplets (48 and 50).

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Claims 3-4 and 8-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a). Fukada et al shows in Fig. 4, elements (S) & (L) to be inclined .
- b). Matsumoto et al discloses a tray column for the processing of an easily polymerizable compound.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to V. Manoharan whose telephone number is (571) 272-1450.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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/Virginia Manoharan/ Primary Examiner, Art Unit 1797